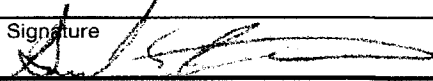
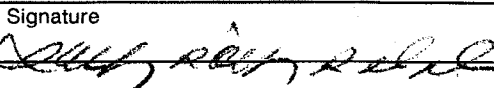


UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. WAD980738546		Manifest Document No. 99002		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <b>ALASKAN COPPER WORKS</b> P.O. Box 3548, Seattle, WA 98124				6. US EPA ID Number C.A.D.059240213		A. State Manifest Document Number							
4. Generator's Phone (206) 623-5801						B. State Generator's ID							
5. Transporter 1 Company Name MC NOTTINGHAM Corp. Inc.				8. US EPA ID Number		C. State Transporter's ID							
7. Transporter 2 Company Name						D. Transporter's Phone 909 627 3264							
9. Designated Facility Name and Site Address <b>World Resources Company</b> 8113 West Sherman Street Phoenix, Arizona 85043				10. US EPA ID Number AZD980735500		E. State Transporter's ID							
						F. Transporter's Phone							
						G. State Facility's ID							
						H. Facility's Phone 800-972-1955							
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. <b>RQ, Hazardous waste, solid, n.o.s., (P006), 9, NA3077, III</b>						No. Type 221 CF		215.25		P		P006	
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information <b>24 Hour Emergency Response: 1-800-424-9300 CHEMTREC (Emergency call pager #206-648-8423) (Use CHEMTREC company code "WORK") Wear gloves &amp; goggles</b> P.O. # M73443													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name Charles A. Thompson						Signature 				Month Day Year 10/22/99			
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name Jay Ray Kelly						Signature 				Month Day Year 10/22/99			
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name						Signature				Month Day Year			
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name						Signature				Month Day Year			

## NOTICE

**TO:** World Resource Company  
8112 West Sherman Street  
Phoenix, Arizona 85043

**From:** Alaskan Copper Works  
628 South Hanford Street  
Seattle, Washington 98134

**SUBJECT:** Land Disposal Restriction Notice

**Manifest Number:** 99002

**Date of Shipment:** 2-23-99

This shipment of material, which is being provided for recycling, is subject to the land disposal restrictions of 40 CFR, Part 268, Subpart D or the prohibitions specified in 268.32 or RCRA 3004(d). The applicable Land Disposal Restriction Information is provided in accordance with 40 CFR 268.7 and is shown below:

EPA Material Number	Regulated Constituent	Subcategory	Treatability Group	Treatment Standards	
				CFR Reference	Prohibition Level
F006	N/A	N/A	Nonwastewater	40 CFR 268.41 40 CFR 268.43	---

By: Gerald A. Thompson  
Alaskan Copper Environmental Assistant

# Material Safety Data Sheet

F006 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:

**World Resources Company**

8113 West Sherman Street

Phoenix, Arizona 85043

Tele: 1-602-233-9166 Fax: 1-602-936-9164

Issued: 8/7/90

Revised: 10/5/93 DLS

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or accident (all calls are recorded)

For Emergencies During Shipping in

the US or Canada, Day or Night,

Call: CHEMTREC 800-424-9300

(Use Chemtrec Company Code "WORR")

For calls from other countries call:

202-483-7616 Collect

## Section 1

Generic Name: Electroplating/Metal-Finishing Wastewater Treatment Sludge

Environmental Protection Agency (EPA) Waste Classification: F006

Chemical Family: Metallic (Hydroxide) Precipitates

Synonym: Non-ferrous Metal Hydroxide Filter Cake

## PRODUCT - MATERIAL IDENTIFICATION

DOT Shipping Name: RQ, Hazardous waste, solid, n.o.s., (F006)

DOT Hazard Class: 9; Packing Group: III

DOT Identification Number: NA 3077

Guide 171 of the 1996 North American Emergency Response Guidebook Applies

## Section 2

## HAZARDOUS INGREDIENTS

Ingredient:	CAS Number:	Content %:	ACGIH-TLV	Toxicology: (rat, oral)
Copper Hydroxide	20427-59-2	0-30	1.0 mg/m <sup>3</sup> (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0-15	1.0 mg/m <sup>3</sup> (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0-15	5.0 mg/m <sup>3</sup> (Dust)	LD-50 7,340 mg/kg
Diatomaceous Earth	68855-54-9	0-10	6.0 mg/m <sup>3</sup> (Dust)	LD-50 3,160 mg/kg

## Section 3

## PHYSICAL AND REACTIVITY DATA

Description: Solid, Clay-like Clumps,

Gray/Green to Brown,

Water Content 30-80%

Specific Gravity: 2.5 to 3.5

Solubility: Insoluble in water

Density: 64 to 90 lbs/cu/ft

Incompatible Reactivity: None Known

Vapor Pressure: Insignificant

Stability: Avoid contact with acids

Polymerization: Will not occur

Boiling Point: Above 2600°C

Melting Point: Above 1800°C

pH: 7.0 to 10.0

Odor: Nil

## Section 4

## FIRE AND EXPLOSION DATA

Flashpoint: Nonflammable

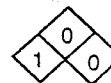
Special Firefighting Procedures: None

Product Decomposition: . . . . . (Due to Fire or Explosion): None

Oxidation: Non-oxidizing

Explosive: Non-explosive

NFPA  
Fire Diamond



## Section 5

## TOXICITY

Listed Carcinogen component: Nickel

Toxicology: See Sec. 2 (Nickel Hydroxide)

Route of Entry: Inhalation and Ingestion

## Section 6

## HEALTH EFFECTS AND FIRST AID

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.

Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.

Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.

Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.

Long-Term Effects: Chronic overexposure may affect the following target organs or body systems—blood, digestive, respiratory, lungs, liver, kidneys and skin.

Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions.

## Section 7

## PRECAUTIONS FOR SAFE HANDLING

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment be used by personnel who will come in contact with the material. The equipment should include eye protection, respirator and gloves.

Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover from rain.

Spills: Cleaning procedures should not create excessive dust. Vacuum when possible. Package material and send to World Resources Company at above address.

## Section 8

## CONTROL MEASURES

Respiratory Protection: NIOSH-MSHA approved respirators as required.

Other Protective Equipment: Coveralls are recommended, but not required.

Eye Protection: Safety Glasses recommended.

Hand Protection: Gloves recommended.

## Section 9

## GENERATORS VERIFICATION

This MSDS is provided solely for informational purposes and no warranty or responsibility is extended even though reasonable precautions have been taken in the preparation of the data contained for this recyclable material. To the best of my knowledge this MSDS describes the recyclable material listed on the attached Manifest Number: F006

Telephone: 360-352-8574 Date: 2-25-99

Company Name and Address: Alaska Copper Works 628 S. Flamingo St  
Seattle WA 98134

Signature: [Signature]

AZF-WRC 9/4/96

AKC-0017555

## MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:  
Hazardous waste, solid, n.o.s., (F006)

NORTH AMERICAN  
EMERGENCY RESPONSE  
GUIDEBOOK

# **TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK**

(Underlined text applies directly to the material listed above)

## POTENTIAL HAZARDS

### **FIRE OR EXPLOSION**

- Some may burn, but none ignite readily.
- Some may polymerize (P) explosively when heated or involved in a fire.
- Containers may explode when heated.
- Some may be transported hot.

### **HEALTH**

- Inhalation of material may be harmful.
- Contact may cause burns to skin and eyes.
- Inhalation of Asbestos dust may have a damaging effect on the lungs.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

## PUBLIC SAFETY

- CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "WORB").
- Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.

### **PROTECTIVE CLOTHING**

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

### **EVACUATION**

#### **Fire**

- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

## EMERGENCY RESPONSE

### **FIRE**

#### **Small Fires**

- Dry chemical, CO<sub>2</sub>, water spray or regular foam.

#### **Large Fires:**

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not scatter spilled material with high pressure water streams.
- Dike fire-control water for later disposal.

#### **Fire Involving Tanks:**

- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from the ends of tanks.

### **SPILL OR LEAK**

- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent dust cloud.
- Avoid inhalation of asbestos dust.

#### **Small Dry Spills**

- With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

#### **Small Spills**

- Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

#### **Large Spills**

- Dike far ahead of liquid spill for later disposal.
- Cover powder spill with plastic sheet or tarp to minimize spreading.
- Prevent entry into waterways, sewers, basements or confined areas.

### **FIRST AID**

- Move victim to fresh air.
- Call emergency medical care.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.



WORLD RESOURCES COMPANY

PHOENIX, ARIZONA

# Transporter Checklist

[ → To be completed prior to leaving generator's facility, as required by World Resources Company policy. ]

GENERATOR  
NAME:

Alaska Copper

DATE:

02-23-99

TRANSPORTATION  
COMPANY NAME:

M.C. NOTTINGHAM CO of SO CAL

DRIVER'S  
NAME:

JAY RELPH

## MANIFEST

1. Has a 12-digit GENERATOR EPA I.D. NUMBER: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	8. Has a 24-hour EMERGENCY RESPONSE NUMBER: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. Has a 5-digit MANIFEST DOCUMENT NUMBER: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	9. Has been SIGNED and DATED by the Generator: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
3. Has correct TRANSPORTER NAME and PHONE number and EPA I.D. NUMBER: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	10. All changes or corrections have been INITIALED by the Generator who signed it off: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
4. Has correct GENERATOR NAME and ADDRESS and PHONE number: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	11. Has a LAND DISPOSAL RESTRICTION NOTICE attached: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
5. Has correct DESIGNATED FACILITY NAME, ADDRESS, PHONE NUMBER and EPA I.D. NUMBER: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	12. Has a Material Safety Data Sheet [MSDS] or a DOT Emergency Response Guide 171 attached: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
6. Has correct MATERIAL DESCRIPTION (RQ, Hazardous waste, solid, n.o.s. (F006), 9, NA3077, III): <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	13. COPIES have been received by the Generator: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
7. Has correct NUMBER of CONTAINERS: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

## CONDITION OF CONTAINERS

1. Lids were off for inspection: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	4. Containers are marked with Generator's information: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. Drums are free of holes or dents and have lids: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	5. Roll-off or trailer is placarded with a Class 9, 3077 placard: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
3. Containers have proper markings: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

### DEBRIS:

[tires, bottles, cartridges, cans, plastic]:

1.

Is debris evident in container:

→ If YES, have generator remove debris.

☐ N/A ☐ YES ☒ NO

## FREE LIQUIDS:

1. Containers have free-standing liquid: <input type="checkbox"/> N/A <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. Are containers leaking: <input type="checkbox"/> N/A <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO → If liquid is present or there is leaking, do not accept shipment.

## MISCELLANEOUS

1. Was COD check in an envelope: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2. Was shipment and paperwork ready on time: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Questions? Call WRC at 1-800/WRC-1955, or pages 1-602/250-7952 or 1-602/201-5345.



WORLD RESOURCES COMPANY

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AKC-0017557